

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mohammed N. Islam  
Date Filed: July 25, 2003  
Title: NONLINEAR POLARIZATION AMPLIFIERS IN  
NONZERO DISPERSION SHIFTED BAR

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313.1450

Dear Sir:

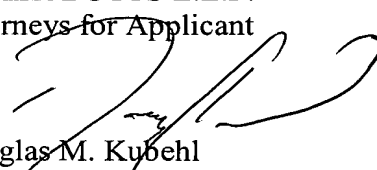
**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form, and previously cited in U.S. Application Serial No. 09/766,489, filed January 19, 2001 by Applicant and entitled "NONLINEAR POLARIZATION AMPLIFIERS IN NONZERO DISPERSION SHIFTED FIBER," be considered and cited in the examination of the above-identified continuation patent application. Pursuant to 37 C.F.R. § 1.98(d), copies of these references are not being furnished. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

Pursuant to 37 C.F.R. § 1.97(b), no fee is believed due. If, however, Applicant has overlooked the need for a fee, the Commissioner is hereby authorized to charge any underpayment to Deposit Account No. 02-0384 of Baker Botts L.L.P.

Respectfully submitted,

BAKER BOTTS L.L.P.  
Attorneys for Applicant



Douglas M. Kuehl  
Registration No. 41,915

Dated: 7-25-03  
Baker Botts L.L.P.  
2001 Ross Avenue, 6<sup>th</sup> Floor  
Dallas, TX 75201-2980  
Tele.: 214.953.6486

PTO-1449	Application No.		Applicant(s)	
	Docket Number <b>069204.0234</b>		Group Art Unit	Filing Date <b>July 25, 2003</b>

**Information Disclosure Citation  
In an Application**

**Mohammed N. Islam**

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	3,772,528	11/13/1973	Anderson	307	88.3	01/26/1972
	B	4,063,106	12/13/1977	Ashkin et al.	307	88.3	
	C	4,616,898	10/14/1986	Hicks, Jr.	350	96.15	09/28/1983
	D	4,685,107	08/04/1987	Kafka et al.	372	6	
	E	4,699,452	10/13/1987	Mollenauer et al.	350	96.16	10/28/1985
	F	4,720,684	01/19/1988	Byron	330	4.3	07/22/80
	G	4,740,974	04/26/1988	Byron	372	3	
	H	4,831,616	05/16/1989	Huber	370	3	
	I	4,923,291	05/08/1990	Edagawa et al.	350	389	07/15/1988
	J	4,932,739	06/12/1990	Islam	350	96.15	09/25/1989
	K	4,995,690	02/26/1991	Islam	350	96.15	04/24/1989
	L	5,020,050	05/28/1991	Islam	370	4	10/13/1989
	M	5,039,199	08/13/1991	Mollenauer et al.	359	334	12/29/1989

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
	N	58208731 A	28.05.1982	JP	G02F	01/35	X	
	O	96/16612 A1	06.06.1996	WO	A61F	2/08	X	
	P	98/42088 A1	24.09.1998	WO	H04B	10/17	X	
	Q	0 903 877 A2	24.03.1999	EP	H04B	10/18	X	
	R	99/49580 A2	30.09.1999	WO	H04B		X	
	S	99/62407 A1	09.12.1999	WO	A61B	17/04	X	

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	T	Sun et al., "80nm ultra-wideband erbium-doped silica fibre amplifier," Electronic Letters, Vol. 33, No. 23, pp. 1965-1967	11/06/1997
	U	Wysocki et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40 nm Using Long-Period Grating Filter," IEEE Photonics Technology Letters, Vol. 9, No. 10, pp. 1343-1345	10/1997
	V	Liaw et al., "Passive Gain-Equalized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber," IEEE Photonics Technology Letters, Vol. 8, No. 7, pp. 879-881	07/07/1996
	W	Yamada et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er3+-Doped Fiber Amplifier in a Cascade Configuration," IEEE Photonics Letters, Vol. 8, No. 5, pp. 620-622	05/1996
	X	Ma, M.X. et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8x2.5 Gb/s NRZ Transmission," IEEE Photonics Technology Letters, Vol. 10, No. 6, pp. 893-895	June 1998
	Y	Masuda et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers," IEEE Photonics Technology Letters, Vol. 10, No. 4, pp. 516-518	04/1998
	Z	Masuda et al., "Wide-Band and Gain-Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 6, pp. 647-649	06/1999
	AA	Kawai, et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification," Electronic Letters, Vol. 34, No. 9, pp. 897-898	04/30/1998

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449	Application No.		Applicant(s)	
	Docket Number <b>069204.0234</b>		Group Art Unit	Filing Date <b>July 25, 2003</b>

**Information Disclosure Citation  
In an Application**

**Mohammed N. Islam**

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,050,183	09/17/1991	Duling, III			
	B	5,058,974	10/22/1991	Mollenauer	385	27	10/06/1989
	C	5,078,464	01/07/1992	Islam	385	122	11/07/1990
	D	5,101,456	03/31/1992	Islam	385	27	11/07/1990
	E	5,107,360	04/21/1992	Huber	359	124	
	F	5,115,488	05/19/1992	Islam et al.	385	129	05/10/1991
	G	5,117,196	05/26/1992	Epworth et al.	359	333	04/23/1990
	H	5,132,976	07/21/1992	Chung et al.	372	6	
	I	5,134,620	07/28/1992	Huber	372	6	
	J	5,140,456	08/18/1992	Huber	359	341	04/08/1991
	K	5,151,908	09/29/1992	Huber	372	6	
	L	5,153,762	10/06/1992	Huber	359	125	
	M	5,159,601	10/27/1992	Huber	372	6	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
		98/20587	14.05.1998	WO	H01S	3/30	X
		0 903 876 A1 B1	24.03.1999	EP	H04B	10/17	X
		0 936 761 A1	18.08.1999	EP	H04B	10/18	X
		99/66607 A2	23.12.1999	WO	H01S		X
		00/49721 A2	24.08.2000	WO	H04B		X

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
		Kawai et al., "Ultrawide, 75-nm 3-dB gain-band optical amplifier utilizing erbium-doped fluoride fiber and Raman fiber," OFC Technical Digest, pp. 32-34	1998
		Kidorf et al., Pump Interactions in a 100-nm Bandwidth Raman Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 5, pp. 530-532	05/1999
		Ono et al., "Gain-Flattened Er3+ -Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60-μm Wavelength Region," IEEE Photonics Technology Letters, Vol. 9, No. 5, pp. 596-598	05/1997
		Hansen et al., "529 km Unrepeated Transmission at 2.488 Gbit/s Using Dispersion Compensation, Forward Error Correction, and Remote Post- and Pre-amplifiers Pumped by Diode-Pumped Raman Lasers," IEEE Electronics Letters, Online No. 19951043	07/07/1995
		Guy et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3μm Using Distributed Raman Amplification," Electronics Letters, Vol. 34, No. 8, pp. 793-794	04/16/1998
		Dianov et al., "Highly efficient 1.3μm Raman fibre amplifier," Electronics Letters, Vol. 34, No. 7, PP. 669-670	04/02/1998
		Chemikov et al., "Raman Fibre Laser Operating at 1.24μm," Electronics Letters, Vol. 34, No. 7, pp. 680-681	04/02/1998
		Masuda et al., "Wideband, gain-flattened, erbium-doped fibre amplifiers with 3dB bandwidths of >50nm," Electronics Letters, Vol. 33, No. 12, pp. 1070-1072	06/05/1997
		Yang et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification," Electronics Letters, Vol. 33, No. 21, pp. 1812-1813	10/09/1997
		Kawai et al. "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 7, pp. 886-888	07/1999
		Paschotta et al., "Ytterbium-Doped Fiber Amplifiers," IEEE Journal of Quantum Electronics, Vol. 33, No. 7, pp. 1049-1056	07/1997

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

PTO-1449			Application No.		Applicant(s) <b>Mohammed N. Islam</b>		
<b>Information Disclosure Citation In an Application</b>			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	A	5,166,821	11/24/1992	Huber	359	238	
	B	5,187,760	02/16/1993	Huber	385	37	
	C	5,191,586	03/02/1993	Huber	372	6	
	D	5,191,628	03/02/1993	Byron	385	27	10/29/1991
	E	5,200,964	04/06/1993	Huber	372	26	
	F	5,208,819	05/04/1993	Huber	372	32	
	G	5,210,631	05/11/1993	Huber et al.	359	132	
	H	5,212,579	05/18/1993	Huber et al.	359	182	
	I	5,218,655	06/08/1993	Mizrahi	385	39	
	J	5,222,089	06/22/1993	Huber	372	9	
	K	5,224,194	06/29/1993	Islam	385	122	04/02/1991
	L	5,225,925	07/06/1993	Grubb et al.	359	341	
	M	5,226,049	07/06/1993	Grubb	372	6	
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
	N	1 054 489 A2	22.11.2000	EP	H015	3/067	X
	O	1 180 860 a1	19.02.2001	EP	H04B	10/17	X
		0 421 675 A2	09/27/1990	Europe	H04B	10/16	
<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>							
	P	Grubb, et al., "Fiber Raman Lasers Emit at Many Wavelengths," Laser Focus World, pp. 127-134					DATE 02/1996
	Q	Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission," Optical Society of America					1999
	R	Hansen, et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering," IEEE Photonics Technology Letters, Vol. 4, No. 6, pp. 559-561					06/1992
	S	Spirit et al., "Systems Aspects of Raman Fibre Amplifiers," Optical Amplifiers for Communication, IEEE Proceedings, Vol. 137, Pt. J, No. 4, pp. 221-224					08/1990
	T	Mollenauer et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss," IEEE Journal of Quantum Electronics, Vol. QE-22, No. 1, pp. 157-173					01/1986
	U	Marhic, et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques," Optical Society of America, Vol. 15, No. 3, pp. 958-963					1998
	V	Hansen et al., "Rayleigh Scattering Limitations in Distributed Raman Pre-Amplifiers," IEEE Photonics Technology Letters, Vol. 10, No. 1, pp. 159-161					01/1998
	W	M. Ikeda, "Stimulated Raman Amplification Characteristics in Long Span Single-Mode Silica Fibers," Optics Communications, Vol. 39, No. 3, pp. 148-152					1981
	X	K. Solbach et al., "Performance Degradation Due to Stimulated Raman Scattering in Wavelength-Division-Multiplexed Optical-Fibre Systems," Electronics Letters, Vol. 19, No. 6, pp. 641-643					1983
	Y	Grandpierre et al., "Theory of Stimulated Raman Scattering Cancellation in Wavelength-Division-Multiplexed Systems via Spectral Inversion," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1271-1273					10/1999
	Z	S.R. Chinn, "Analysis of Counter-Pumped Small-Signal Fibre Raman Amplifiers," Electronics Letters, Vol. 33, No. 7, pp. 607-608					03/27/1997
	AA	R.H. Stolen et al. "Raman Gain in Glass Optical Waveguides," Appl. Phys. Letters, Vol. 22, No. 6, pp. 276-278					03/15/1973
	AB	R.H. Stolen et al. "Development of the Stimulated Raman Spectrum in Single-Mode Silica Fibers," Optical Society of America, Vol. 1, No. 4, pp.662-667					08/1984
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449			Application No.		Applicant(s) <b>Mohammed N. Islam</b>		
<b>Information Disclosure Citation In an Application</b>			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	A	5,243,609	09/07/1993	Huber	372	9	
	B	5,251,642	10/12/1993	Handlos	128	774	06/06/1991
	C	5,257,124	10/26/1993	Glaab et al.	359	124	08/15/1991
	D	5,268,910	12/07/1993	Huber	372	6	
	E	5,271,024	12/14/1993	Huber	372	6	07/27/1992
	F	5,283,686	02/01/1994	Huber	359	337	
	G	5,293,545	03/08/1994	Huber	359	111	07/27/1992
	H	5,295,016	03/15/1994	Van Deventer	359	347	
	I	5,295,209	03/15/1994	Huber	385	37	11/10/1992
	J	5,301,054	04/05/1994	Huber et al.	359	132	
	K	5,321,543	06/14/1994	Huber	359	187	
	L	5,321,707	06/14/1994	Huber	372	6	
	M	5,323,404	06/21/1994	Grubb	372	6	
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
	O						
<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>							<b>DATE</b>
	P	Nissov et al., "100 Gb/s (10x10Gb/s) WDM Transmission Over 7200 km Using Distributed Raman Amplification," Center for Broadband Telecommunications, pp. 9-12					N/A
	Q	N. Takachio et al., "32x10 Gb/s Distributed Raman Amplification Transmission with 50-GHz Channel Spacing in the Zero-Dispersion Region over 640km of 1.55- $\mu$ m Dispersion-shifted Fiber," NTT Labs					Undated
	R	Agrawal, "Stimulated Raman Scattering," Ch. 8 and "Parametric Processes," Ch. 10 of Nonlinear Fiber Optics					1989
	S	Inoue et al., "Wavelength Conversion Experiment Using Fiber Four-Wave Mixing," IEEE Photonics Technology Letters, Vol. 4, No. 1, pp. 69-72					01/1992
	T	Inoue, "Four-Wave Mixing in an Optical Fiber in the Zero-Dispersion Wavelength Region," Journal of Lightwave Technology, Vol. 10, No. 11, pp. 1553-1561					11/1992
	U	Tatham et al., "20 nm Optical Wavelength Conversion Using Nondegenerate Four-Wave Mixing," IEEE Photonics Technology Letter, Vol. 5, No. 11, pp. 1303-1305					11/1993
	V	Inoue et al., "Polarisation insensitive wavelength conversion using a light injected DFB-LD with a loop configuration," Electronics Letters, Vol. 30, No. 5, pp. 438-439					03/1994
	W	Hansen et al., "Repeaterless transmission experiment employing dispersion," 21st European Conference on Optical Communication, Vol. 2, 1 page					09/17-21/1995
	X	Zou et al., "Compensation of Raman Scattering and EDFA's Nonuniform Gain in Ultra-Long-Distance WDM Links," IEEE Photonics Technology Letters, Vol. 8, No. 1, pp. 139-141					01/1996
	Y	Marhic et al., "Broadband fiber optical parametric amplifiers," Optics Letters, Vol. 21, No. 8, pp. 573-575					04/15/1996
	Z	Hedekvist et al., "Polarization Dependence and Efficiency in a Fiber Four-Wave Mixing Phase Conjugator with Orthogonal Pump Waves," IEEE Photonics Technology Letters, Vol. 8, No. 6, pp. 776-778					06/1996
	AA	Yamada et al., "Broadband and gain-flattened amplifier composed of 1.55 $\mu$ m-band Er <sup>3+</sup> doped fibre amplifier in a parallel configuration," Electronics Letters, Vol. 33, No. 8, pp. 710-711					04/10/1997
	AB	Masuda et al., "Ultra-wideband optical amplification with 3dB bandwidth of 65 nm using a gain-equalized two-stage erbium-doped fibre amplifier and Raman amplification," Electronics Letters, Vol. 33, No. 9, pp. 73-78					04/1997
	AC	Masuda et al., "75-nm 3-dB Gain-band Optical Amplification with Erbium-doped fluoride Fibre amplifiers and Distributed Raman Amplifiers in 9 x 2.5-Gb/s WDM Transmission Experiment," ECOC Conference, Vol. 5, No. 448, pp. 73-76					09/22/1997
	AD	Hansen et al., "Loss compensation in dispersion compensating fiber modules by Raman amplification," Optical Fiber Conference OFC'98, paper TuD1, Technical Digest, San Jose, CA, pp. 20-21					02/1998
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

U.S. PATENT AND TRADEMARK OFFICE

DAL01:743620

PTO-1449	Application No.		Applicant(s)	
	Docket Number <b>069204.0234</b>		Group Art Unit	Filing Date <b>July 25, 2003</b>

**Information Disclosure Citation  
In an Application**

**M hammed N. Islam**

**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	5,331,449	07/19/1994	Huber et al.	359	125	
	B	5,359,612	10/25/1994	Dennis et al.	372	18	
	C	5,369,519	11/29/1994	Islam	359	173	02/05/1993
	D	5,373,389	12/13/1994	Huber	359	195	
	E	5,389,779	02/14/1995	Betzig et al.	250	216	
	F	5,400,166	03/21/1995	Huber	359	173	
	G	5,416,629	05/16/1995	Huber	359	182	
	H	5,450,427	09/12/1995	Fermann et al.	372	18	
	I	5,467,212	11/14/1995	Huber	359	168	
	J	5,473,622	12/05/1995	Grubb	372	6	
	K	5,477,555	12/19/1995	Debeau et al.	372	25	
	L	5,479,291	12/26/1995	Smith et al.	359	333	
	M	5,485,481	01/16/1996	Ventrudo et al.	372	6	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	N						

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	O	Emori et al., "Less than 4.7 dB Noise Figure Broadband In-line EDFA with A Raman Amplified-1300 ps/nm DCF Pumped by Multi-channel WDM Laser Diodes," OSA Conference, paper PD3-1-5, Vail, CO	07/1998
	P	Rotwitt et al., "Distributed Raman Amplifiers for Long Haul Transmission systems," LEOS, pp. 251-252	12/1998
	Q	Grubb et al., "Detailed analysis of Raman amplifiers for long-haul transmission," OFC Technical Digest, pp. 30-31	1998
	R	Becker et al., "Erbium Doped Fiber Amplifiers Fundamentals and Technology," Academic Press, pp. 55-60	1999
	S	Yun et al., "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1229-1231	10/1999
	T	Mikkelsen et al., "160 Gb/s TDM Transmission Systems," ECOC, 4 pages	2000
	U	Nielsen et al., "3.28 Tb/s (82x40 Gb/s) transmission over 3 x 100 km nonzero-dispersion fiber using dual C- and L-band hybrid Raman/Erbium-doped inline amplifiers," OFCC 2000, pp. 1229-1231	03/7-10/2000
	V	Ho et al., "Fiber optical parametric amplifier and wavelength converter with 208-nm gain bandwidth," Thursday Morning/CLEO, pp. 401-402	05/2000
	W	Yu et al., "All-Optical Wavelength Conversion of Short Pulses and NRZ Signals Based on a Nonlinear Optical Loop Mirror," Journal of Lightwave Technology, Vol. 18, No. 7, pp. 1007-1017	07/2000
	X	Seo et al., "Compensation of Raman-Induced Crosstalk Using a Lumped Germanosilicate Fiber Raman Amplifier in the 1.571-1.591-μm Region," IEEE Photonics Technology Letters, Vol. 13, No. 1, pp. 28-30	01/2001
	Y	H. Masuda et al., "Ultra Wide-Band Raman Amplification with a Total Gain-Bandwidth of 132 nm of Two Gain-Bands Around 1.5 μm, ECOC '99, Nice, France, pp. 11-146 - 11-147	26-30 September 1999
	Z	Pending Patent Application; USSN 09/811,067, entitled "Method and System for Reducing Degradation of Optical Signal to Noise Ratio"	Filed 03/16/2001
	AA	Pending Patent Application, USSN 10/211,209, entitled "Active Gain Equalization" (see Pending Provisional Patent Application; USSN 60/310,147; entitled "Combined Laser Diode Raman Pumps; Active Gain Equalizers; Bi-Directional Raman Amplifiers")	Filed 08/02/2002
	AB	Sugizaki et al., "Slope Compensating DCF for S-Band Raman Amplifier," OSA TOPS Vol. 60, Optical Amplifiers and Their Applications, Nigel Jolley, John D. Minelly, and Yoshiaki Nakano, eds., 2001 Optical Society of America, pp. 49-53	2001
	AC	Vasilyev et al., "Pump Intensity Noise and ASE Spectrum of Raman Amplification in Non-Zero Dispersion-Shifted Fibers," reprinted from the Optical Amplifiers and Their Applications Conference, 2001 Technical Digest, 2001 Optical Society of America, pp. 57-59	2001

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449			Application No.		Applicant(s) <b>Mohammed N. Islam</b>		
<b>Information Disclosure Citation In an Application</b>			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	A	5,485,536	01/16/1996	Islam	385	31	10/13/1994
	B	5,497,386	03/05/1996	Fontana	372	18	09/15/1994
	C	5,504,609	04/02/1996	Alexander et al.	359	125	
	D	5,504,771	04/02/1996	Vahala et al.	372	94	
	E	5,513,194	04/30/1996	Tamura et al.	372	6	04/07/1995
	F	5,521,738	05/28/1996	Froberg et al.	359	184	06/30/1994
	G	5,530,710	06/25/1996	Grubb	372	6	
	H	5,532,864	07/02/1996	Alexander et al.	359	177	
	I	5,541,947	07/30/1996	Mourou et al.	372	25	
	J	5,542,011	07/30/1996	Robinson	385	24	09/09/1994
	K	5,555,118	09/10/1996	Huber	359	125	
	L	5,557,442	09/17/1996	Huber	359	179	12/30/1994
	M	5,559,920	09/24/1996	Chraplyvy et al.	385	123	03/01/1995
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
	N						
		<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>					<b>DATE</b>
	O	Nissov et al., "Rayleigh crosstalk in long cascades of distributed unsaturated Raman amplifiers," Electronics Letters, Vol. 35, No. 12, pp. 997-998					06/10/1999
	P	Brady, et al., "Optical Amplifiers and Lasers in Infrared Fibers," Proc. SPIE, Vol. 3849, p. 85-92,					12/1999
	Q	Patent Abstracts of Japan, Vol. 1997, No. 11 & JP 09 197452 A (NEC Corp.), Abstract					1997-11-28 1997-07-31
	R	Pending Patent Application; USSN 09/800,085; entitled "Dispersion Compensating Nonlinear Polarization Amplifiers"					Filed 03/05/2001
	S	Pending Patent Application; USSN 09/694,858; entitled "Nonlinear Fiber Amplifiers used for a 1430-1530nm Low-Loss Window in Optical Fibers"					Filed 10/23/2000
	T	Pending Patent Application; USSN 09/719,591; entitled "Fiber-Optic Compensation for Dispersion, Gain Tilt, and Band Pump Nonlinearity"					Filed 06/16/1999
	U	Pending Patent Application; USSN 09/719,591; entitled "Fiber-Optic Compensation for Dispersion, Gain Tilt, and Band Pump Nonlinearity"					Filed 06/16/1999
	V	Pending Patent Application; USSN 09/765,972; entitled "S+ Band Nonlinear Polarization Amplifiers"					Filed 01/19/2001
	W	Pending Patent Application; USSN 09/866,497; entitled "Nonlinear Fiber Amplifiers Used for A 1430-1530nm Low-Loss Window In Optical Fibers,"					Filed 05/25/2001
	X	Pending Patent Application; USSN 10/007,643; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"					Filed 10/30/2001
	Y	Pending Patent Application; USSN 10/005,472; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"					Filed 11/06/2001
	Z	Pending Patent Application; USSN 10/014,839; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"					Filed 12/10/2001
	AA	Pending Patent Application; USSN 09/990,142; entitled "Broadband Amplifier and Communication System"					Filed 11/20/2001
	AB	Pending Patent Application; USSN 10/100,591; entitled "System and Method for Managing System Margin"					Filed 03/15/2002
	AC	Pending Patent Application; USSN 10/100,587; entitled "Fiber Optic Transmission System with Low Cost Transmitter Compensation"					Filed 03/15/2002
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

U.S. PATENT AND TRADEMARK OFFICE

DAL01:743620

PTO-1449			Application No.		Applicant(s) <b>Mohammed N. Islam</b>		
<b>Information Disclosure Citation In an Application</b>			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	A	5,577,057	11/19/1996	Frisken	372	18	09/20/1993
	B	5,579,143	11/26/1996	Huber	359	130	
	C	5,600,473	02/04/1997	Huber	359	179	02/24/1995
	D	5,617,434	04/01/1997	Tamura et al.	372	6	
	E	5,623,508	04/22/1997	Grubb et al.	372	3	02/12/1996
	F	5,629,795	05/13/1997	Suzuki et al.	359	337	08/31/1995
	G	5,659,351	08/19/1997	Huber	348	7	
	H	5,659,559	08/19/1997	Ventrudo et al.	372	6	
	I	5,659,644	08/19/1997	DiGiovanni et al.	385	31	
	J	5,664,036	09/02/1997	Islam	385	31	10/12/1995
	K	5,673,280	09/30/1997	Grubb et al.	372	3	02/12/1996
	L	5,673,281	09/30/1997	Byer	372	3	
	M	5,689,596	11/18/1997	Evans	385	27	02/13/1997
	N	5,701,186	12/23/1997	Huber	359	125	
	O	5,726,784	03/10/1998	Alexander et al.	359	125	
	P	5,734,665	03/31/1998	Jeon et al.	372	6	09/18/1996
	Q	5,757,541	05/26/1998	Fidric	359	341	01/15/1997
	R	5,768,012	06/16/1998	Zanoni et al.	359	341	03/07/1997
	S	5,790,300	08/04/1998	Zediker et al.	359	334	10/15/1996
	T	5,796,909	08/18/1998	Islam	385	147	02/14/1996
	U	5,798,855	08/25/1998	Alexander et al.	359	177	
	V	5,815,518	09/29/1998	Reed et al.	372	6	06/06/1997
	W	5,825,520	10/20/1998	Huber	359	130	
	X	5,838,700	11/17/1998	Dianov et al.	372	6	
	Y	5,841,797	11/24/1998	Ventrudo et al.	372	6	
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>TRANSLATION</b>
	Z						
	<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>						<b>DATE</b>
	AA	Pending Patent Application; USSN 10/116,487; entitled "Fiber Optic Transmission System for a Metropolitan Area Network"					Filed 04/03/2002
	AB	Brady et al., "Optical Amplifiers and Lasers in Infrared Fibers," Proceedings of SPIE - The International Society for Optical Engineering, Volume 3849, pgs. 85-92					
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

U.S. PATENT AND TRADEMARK OFFICE

DAL01:743620



<b>PTO-1449</b> <b>Information Disclosure Citation</b> <b>In an Application</b>			Application No.		Applicant(s)		
			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>
<b>U.S. PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>NAME</b>	<b>CLASS</b>	<b>SUBCLASS</b>	<b>FILING DATE</b>
	A	5,847,862	12/08/1998	Chraplyvy et al.	359	337	11/29/1997
	B	5,861,981	01/19/1999	Jabr	359	341	08/20/1997
	C	5,880,866	03/09/1999	Stolen	359	138	11/13/1996
	D	5,883,736	03/16/1999	Oshima et al.	359	341	
	E	5,887,093	03/23/1999	Hansen et al.	385	27	09/12/1997
	F	5,905,838	05/18/1999	Judy et al.	385	123	02/18/1998
	G	5,920,423	07/06/1999	Grubb et al.	359	341	12/05/1997
	H	5,959,750	09/28/1999	Eskildsen et al.	359	134	06/06/1996
	I	5,978,130	11/02/1999	Fee et al.	359	341	09/16/1997
	J	6,008,933	12/28/1999	Grubb et al.	359	341	08/19/1997
	K	6,043,927	03/28/2000	Islam	359	332	01/16/1998
	L	6,072,601	06/06/2000	Toyohara	358	484	02/12/1998
	M	6,081,366	06/27/2000	Kidorf et al.	359	341	08/28/1997
	N	6,088,152	07/11/2000	Berger et al.	359	334	03/08/1999
	O	6,151,160	11/21/2000	Ma et al.	359	341	10/05/1998
	P	6,163,636	12/19/2000	Stentz et al.	385	24	01/19/1999
	Q	6,191,877 B1	02/20/2001	Chraplyvy et al.	359	124	07/15/1996
	R	6,219,176 B1	04/17/2001	Terhara	359	341	07/21/1998
	S	6,236,496 B1	05/22/2001	Yamada et al.	359	341	12/10/1997
	T	6,239,902 B1	05/29/2001	Islam et al.	359	334	05/05/2000
	U	6,239,903 B1	05/29/2001	Islam et al.	359	337	04/25/2000
	V	6,263,139 B1	07/17/2001	Kawakami et al.	385	123	11/09/1999
	W	6,310,716 B1	10/30/2001	Evans et al.	359	334	08/18/2000
	X	6,335,820 B1	01/01/2002	Islam	359	334	12/23/1999
	Y	2002/0001123A1	01/03/2002	Miyakawa et al.	359	334	06/21/2001
	Z	6,356,384 B1	03/12/2002	Islam	359	334	04/11/2000
	AA	6,359,725 B1	03/19/2002	Islam	359	334	12/23/1999
<b>FOREIGN PATENT DOCUMENTS</b>							
		<b>DOCUMENT NO.</b>	<b>DATE</b>	<b>COUNTRY</b>	<b>CLASS</b>	<b>SUBCLAS</b>	<b>TRANSLATION</b>
	AB						
<b>DOCUMENT (Including Author, Title, Source, and Pertinent Pages)</b>							
							<b>DATE</b>
	AC	PCT International Search Report Form PCT/ISA/210					09/06/1999
	AD	PCT International Search Report Form PCT/ISA/210					01/11/2000
	AE						
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

PTO-1449			Application No.			Applicant(s) <b>Mohammed N. Islam</b>		
<b>Information Disclosure Citation In an Application</b>			Docket Number <b>069204.0234</b>		Group Art Unit		Filing Date <b>July 25, 2003</b>	

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	6,370,164 B1	04/09/2002	Islam	372	6	04/17/2000
	B	6,374,006 B1	04/16/2002	Islam et al.	385	15	03/19/1999
	C	6,381,391 B1	04/30/2002	Islam et al.	385	123	12/03/1999
	D	6,414,786 B1	07/02/2002	Foursa	359	334	03/27/2000
	E	6,417,959 B1	07/09/2002	Bolshtyansky et al.	359	334	02/01/2001
	F	6,437,906 B1	08/20/2002	Di Pasquale et al.	359	337.2	11/22/2000
	G						
	H						
	I						
	J						
	K						
	L						
	M						
	N						
	O						
	P						
	Q						
	R						

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	S						

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
T		
U		
V		
W		
X		
Y		
Z		
AA		
AB		
AC		
AD		
AE		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Mohammed N. Islam  
Filing Date: July 25, 2003  
Title: NONLINEAR POLARIZATION AMPLIFIERS IN NONZERO  
DISPERSION SHIFTED BAR

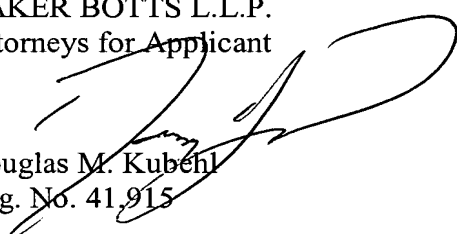
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**INFORMATION DISCLOSURE STATEMENT**

Applicant respectfully requests, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that these references listed on the attached PTO-1449 form be considered and cited in the examination of the above-identified patent application. Copies of these references are enclosed for the convenience of the Examiner. No representation is made that a search has been made, that these references are material to the patentability of the present application, or that these references qualify as prior art.

Respectfully submitted,  
BAKER BOTTS L.L.P.  
Attorneys for Applicant

  
Douglas M. Kubehl  
Reg. No. 41,915

Date: 7-25-03

Baker Botts L.L.P.  
2001 Ross Avenue, 6<sup>th</sup> Floor  
Dallas, Texas 75201-2980  
Telephone No. (214) 953-6486